

# **Panhandle Health District 2007 Disease Surveillance Summary**

## **Epidemiology Services Team**

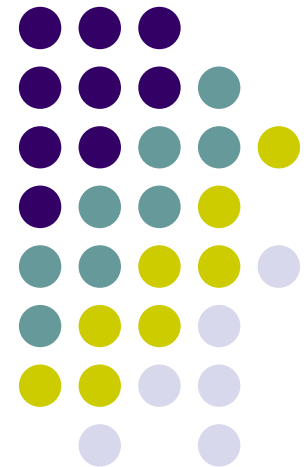
**Randi Lustig, Program Manager**

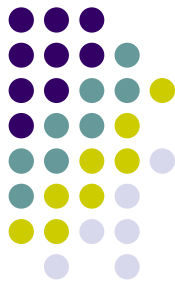
**Jeff Lee, BT Epi, Emerging Infections**

**Dave Hylsky, EHS Epi, Enterics and Vector**

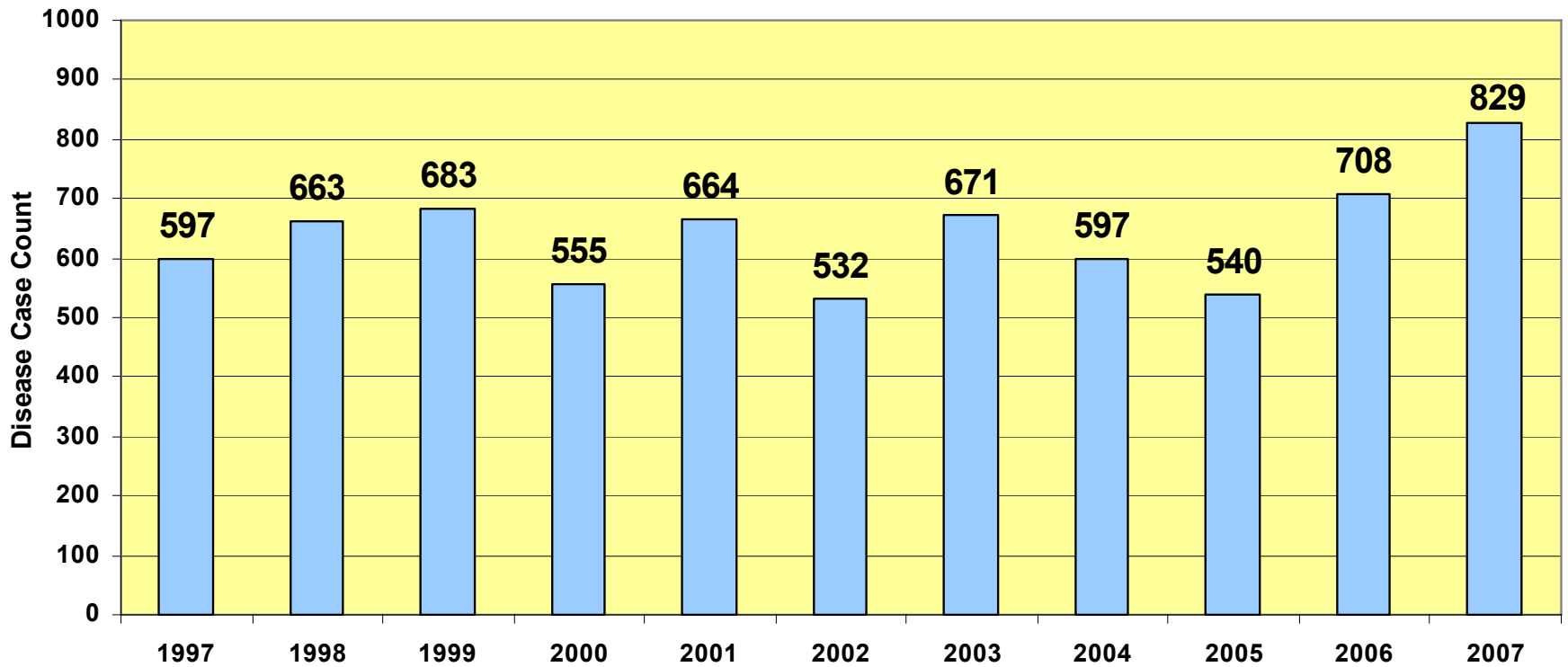
**Mary Petty, Nurse Epi, TB, VPD**

**Donna Marshall-Holden, Epi-Surge, STD/HIV**

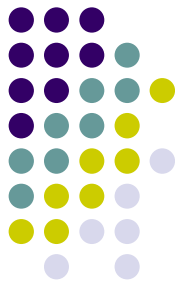
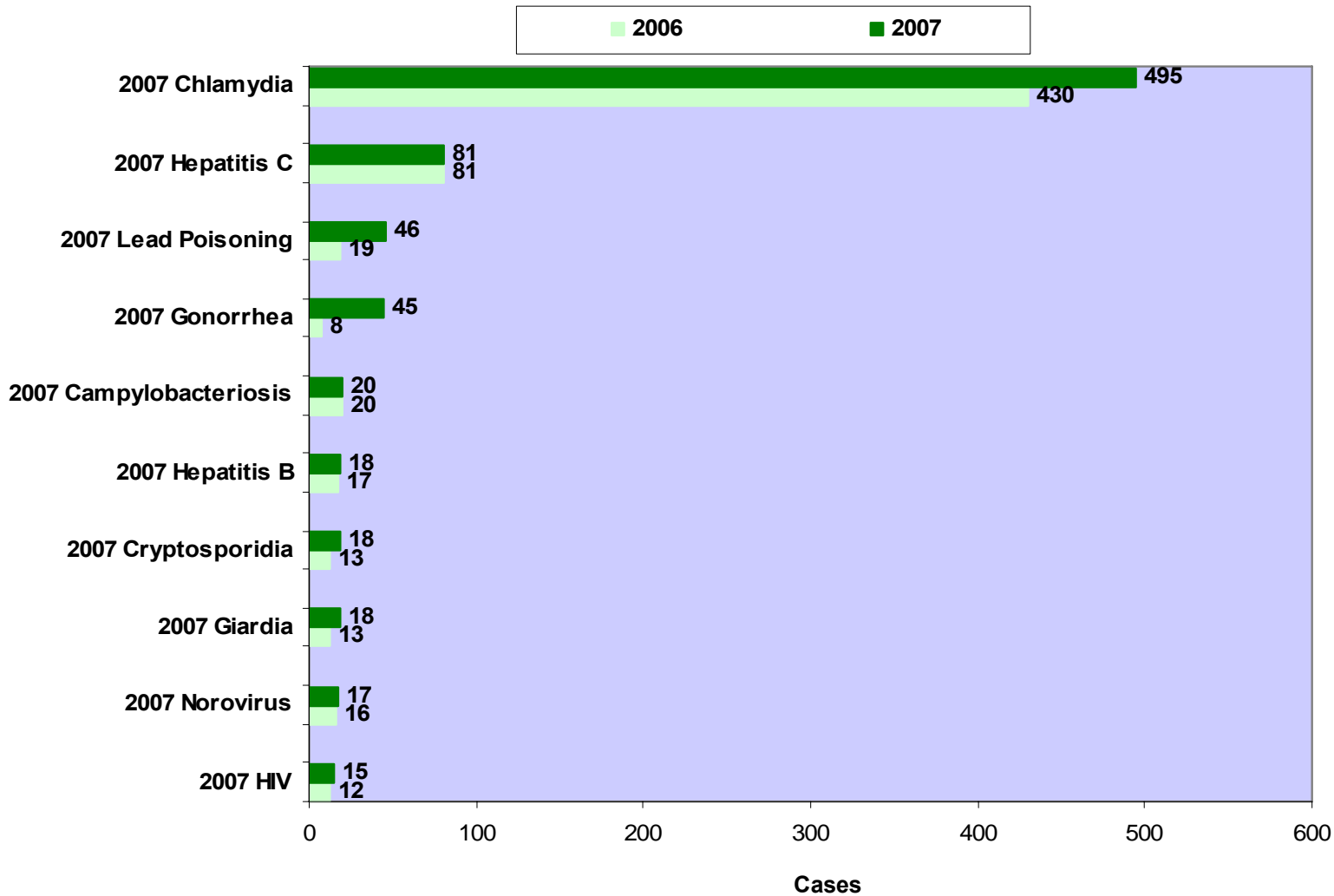




**Panhandle Health District      Reportable Disease Burden**  
**1997-2007**



## Panhandle Health District Top 10 Diseases of 2007





# Panhandle Health District

## 5 Year Disease Activity Summary

(slide 1 of 4)

2003 - 2007

### Number of Reported Cases

Disease	2003	2004	2005	2006	2007
AIDS	2	1	4	7	8
Aseptic/Viral Meningitis	33	0	6	12	6
Campylobacteriosis	13	18	15	20	20
Chancroid	0	1	0	0	0
Chlamydia	323	319	294	430	495
CJD Spongiform encephalopathy	1	0	1	0	0
Cryptosporidiosis	0	2	1	13	18
Escherichia coli 0157:H7	7	0	1	4	4
Giardiasis	29	32	9	13	18
Gonorrhea	9	13	8	8	45

# 5 Year Disease Summary

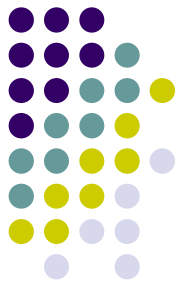
(slide 2 of 4)



Disease	2003	2004	2005	2006	2007
Haemophilus Influenza invas	1	0	0	0	0
Hepatitis A	1	0	0	4	0
Hepatitis B	22	13	8	17	18
Hepatitis C	120	128	105	81	81
HIV	12	2	6	12	15
HTLV I/II	2	0	0	0	0
Kawasaki syndrome	0	0	0	0	1
Lead	11	17	15	19	46
Listeriosis	1	0	0	0	0
Lyme Disease	2	2	0	1	4
Malaria	0	0	0	1	0

# 5 Year Disease Summary

(slide 3 of 4)



Disease	2003	2004	2005	2006	2007
Myocarditis, viral	0	0	0	0	1
Neisseria Meningitis Invasive	2	1	1	1	0
Norovirus	0	0	0	16	17
Pertussis	39	16	38	17	6
Psittacosis	0	0	1	0	0
Rabies PEP	5	5	4	2	1
Relapsing Fever	0	1	1	1	1
Salmonellosis	22	16	16	10	15
Shigellosis	3	0	0	1	0
Strep Group A	5	0	0	0	1

# 5 Year Disease Summary

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Disease	2003	2004	2005	2006	2007
Syphilis - Latent	0	3	1	0	2
Syphilis - Neuro	1	0	0	0	0
Syphilis - Primary	0	0	0	0	1
Syphilis - Secondary	0	0	1	1	0
Syphilis (Reactor)	0	0	0	1	0
Toxic Shock Syndrome	0	1	0	0	1
Tuberculosis	1	1	1	4	0
West Nile Virus	0	0	0	2	2
Yersinosis	0	1	0	0	2

# Chlamydia



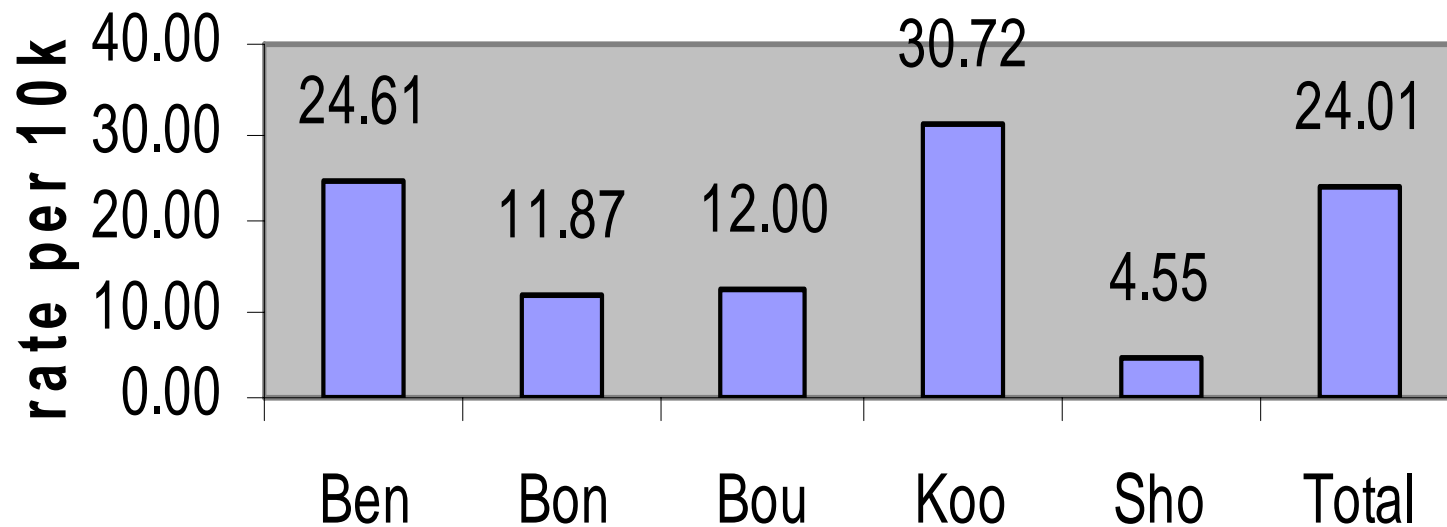
## 5 year Incidence

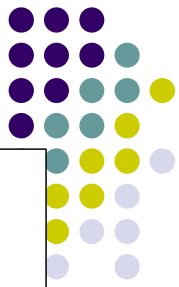
Year	2003	2004	2005	2006	2007
Cases	323	319	294	430	495



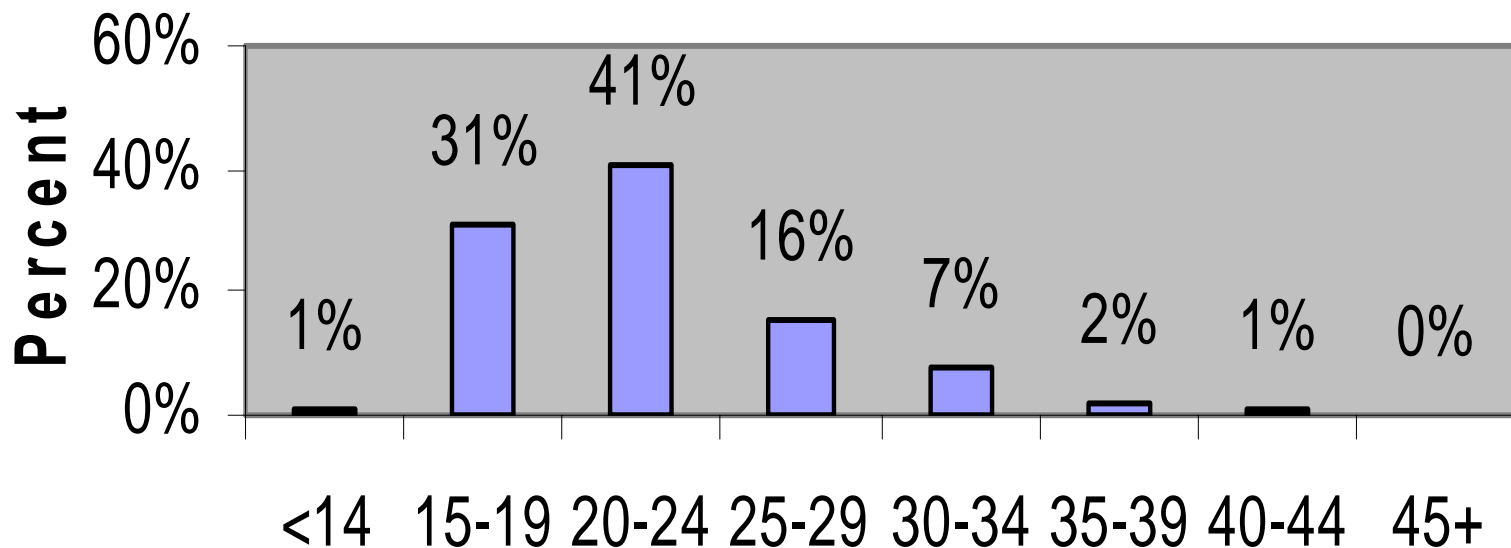


## Panhandle Health District Chlamydia Incidence per 10,000 Population 2007





## Panhandle Health District Chlamydia Distribution by Age 2007



# Gonorrhea

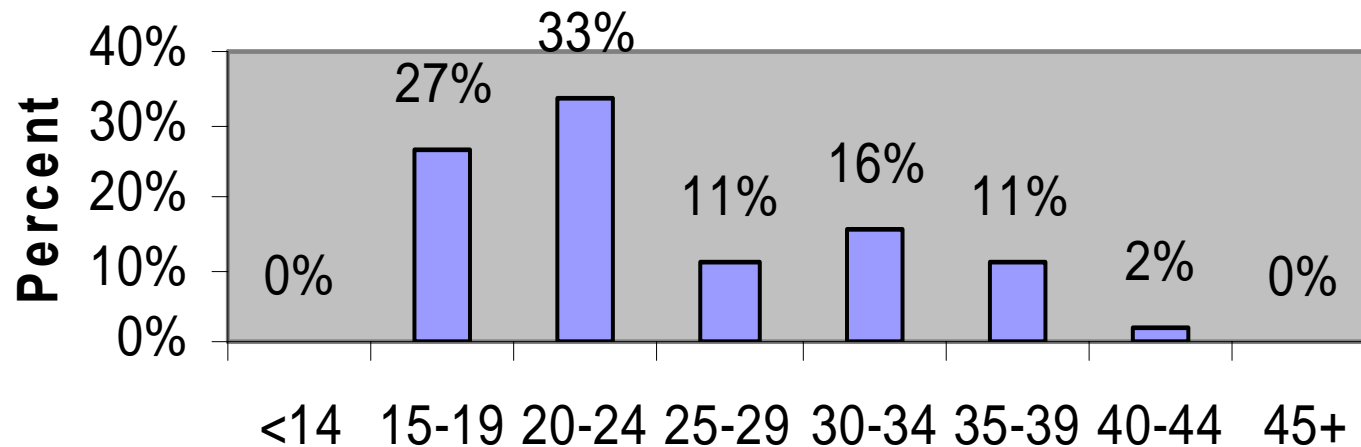


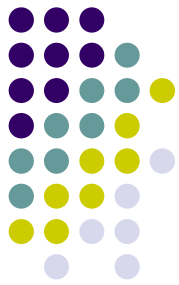
## 5 year Incidence

Year	2003	2004	2005	2006	2007
Cases	9	13	8	8	45

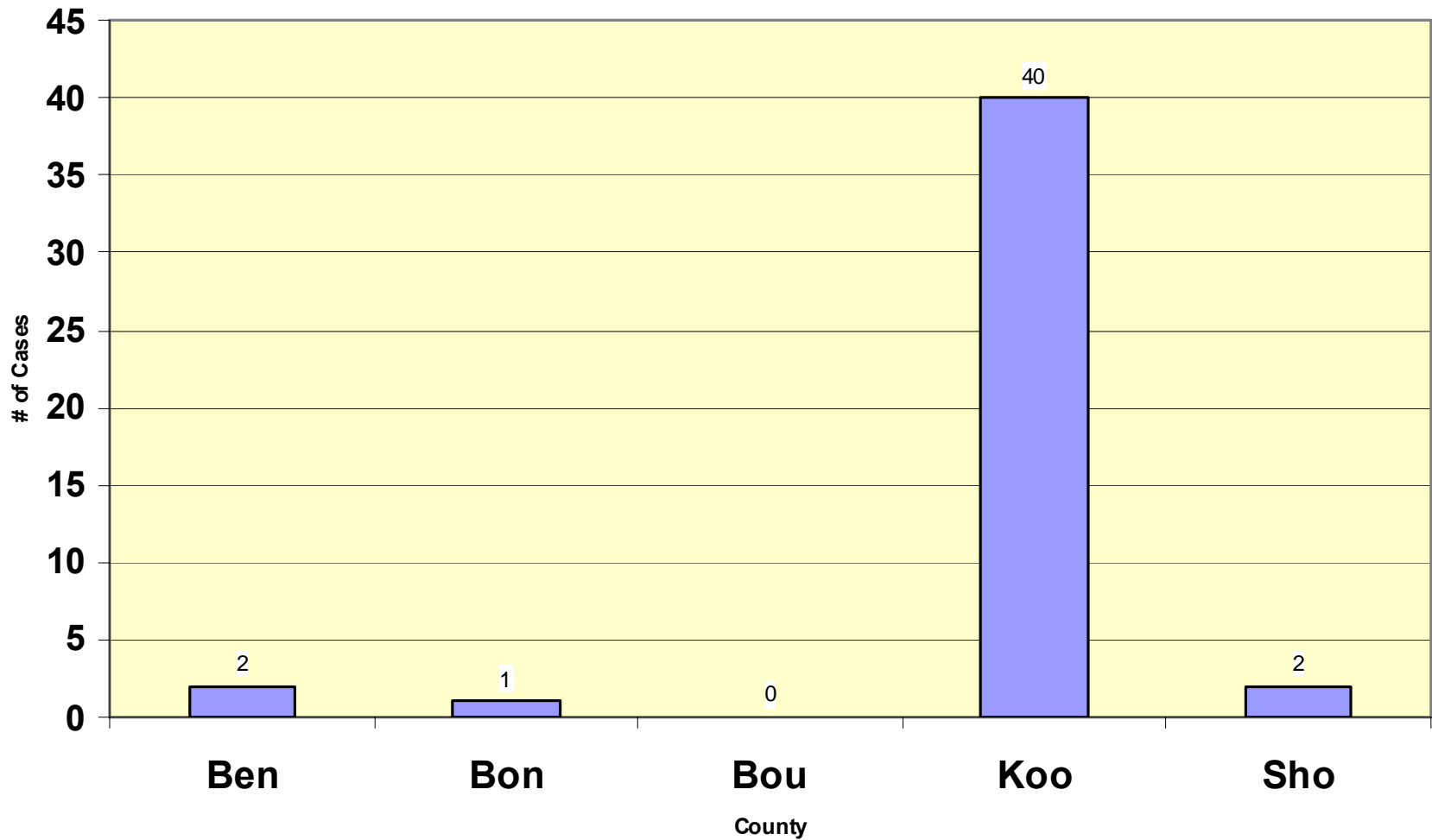


## Panhandle Health District Gonorrhea Distribution by Age 2007





## Gonorrhea Cases By County 2007



# Public Health Interventions for Gonorrhea Outbreak



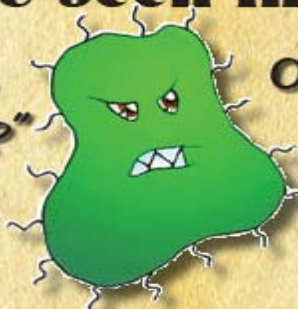
- An expanded and more comprehensive interview tool was developed to search out risk factors and connections.
  - Only one social network involving 5 cases was identified.
- Posters with Testing Clinic information were distributed in 33 local bars in Kootenai and Bonner Counties, area colleges and hang-outs.
- Condoms were distributed to local bars.
- Press releases to all media outlets and interviews with Q6 News, CDA Press, KSPOT and KVNI.
- Health Alert Network message sent to physicians, public school & college health services, and Infection Control and ER staff at area hospitals.

# WANTED








**Have YOU seen this germ?**

**Gonorrhea,  
aka "The Clap"**



**One mean  
dude!**

This mean little  
sexually  
transmitted disease  
infects close to  
4 million people each  
year!

-  **Rates in Northern Idaho are at the highest levels we have ever seen.**
-  Gonorrhea is caused by a bacteria you can get from any sexual contact with the penis, vagina, mouth or anus of a person who has the disease.
-  Many people with Gonorrhea look and feel perfectly healthy.
-  Even if you don't have symptoms, you can still pass Gonorrhea to other people.
-  The only way to be sure if you have Gonorrhea is to get tested.

The test is easy, for men a urine sample, for women a vaginal swab or urine test.

See your Doctor or call Panhandle Health District's appointment line - 208- 415-5270.

**MOST WOMEN AND MANY MEN WITH GONORRHEA HAVE NO SYMPTOMS.**

Symptoms can include:

discharge  
burning with urination  
painful sex



**Get      Get      Get  
Smart!   Tested!   Treated!**

**Use Protection!**



# Elevated Blood-Lead Levels ( $\geq 10\mu\text{g/dl}$ )

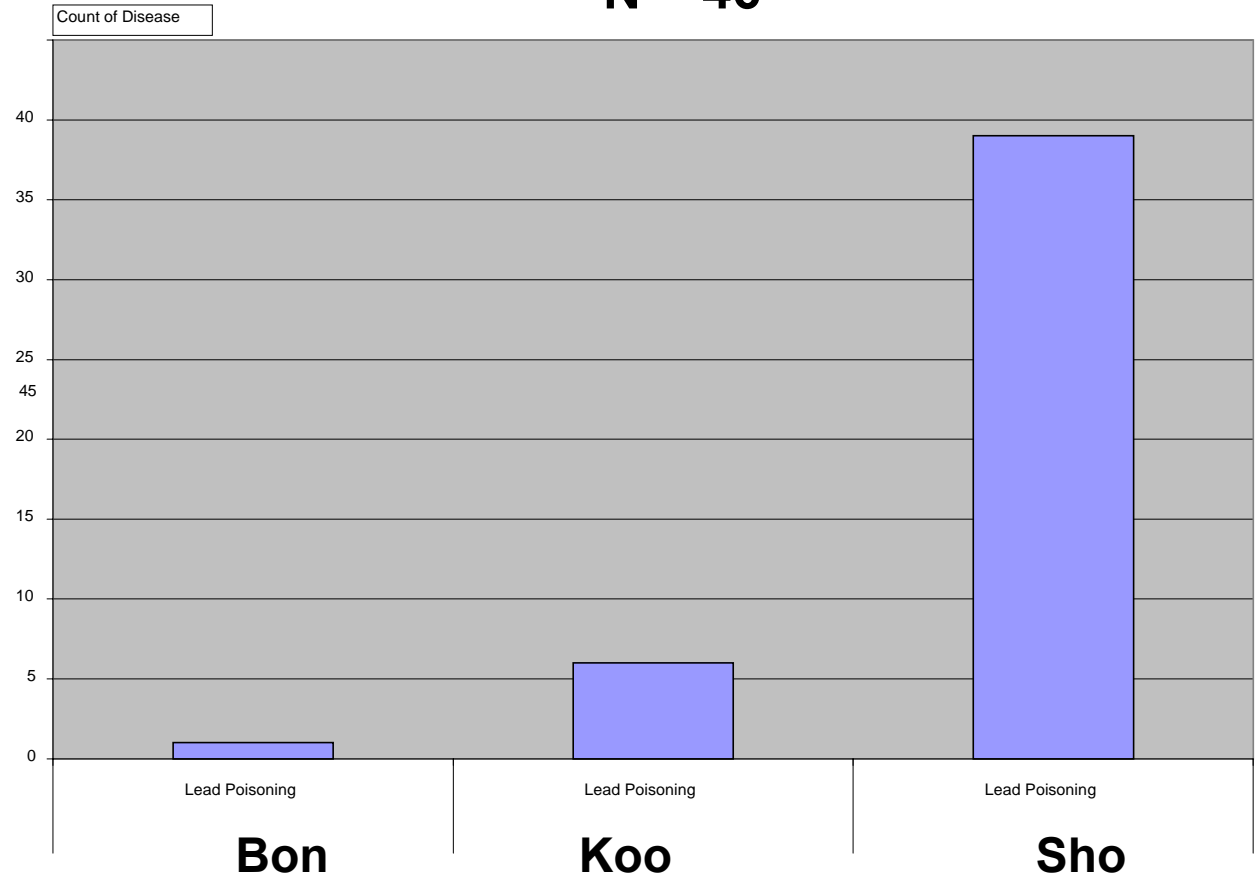


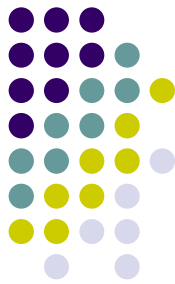
Year	2003	2004	2005	2006	2007
Cases	11	17	15	19	46





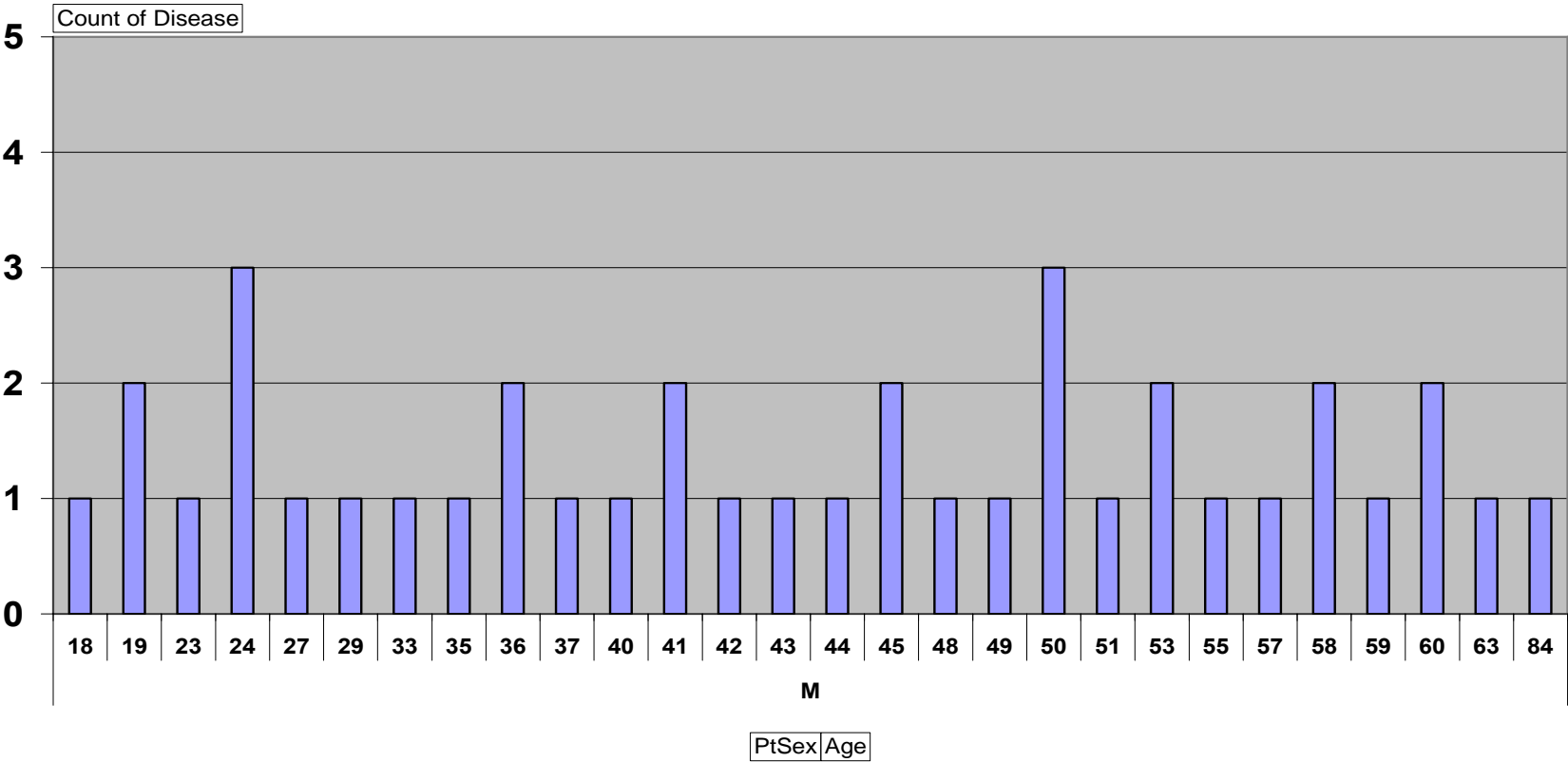
**Panhandle Health District 2007**  
**Elevated Lead Levels - Distribution by County**  
**N = 46**





YrRcv|2007|Disease|Lead Poisoning|County|Sho

PHD 2007 Lead Poisoning  
Shoshone County  
Cases by Age and Gender



2007 Reported Blood Lead Levels in District 1  
Report Level - 10  
N = 46



Blood Lead Levels	Number of Cases
10-19 Micrograms/deciliter	21
20-29	12
30-39	11
40-49	2
50 or higher	0

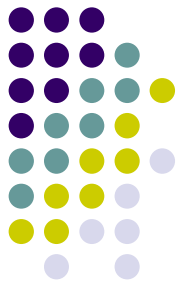
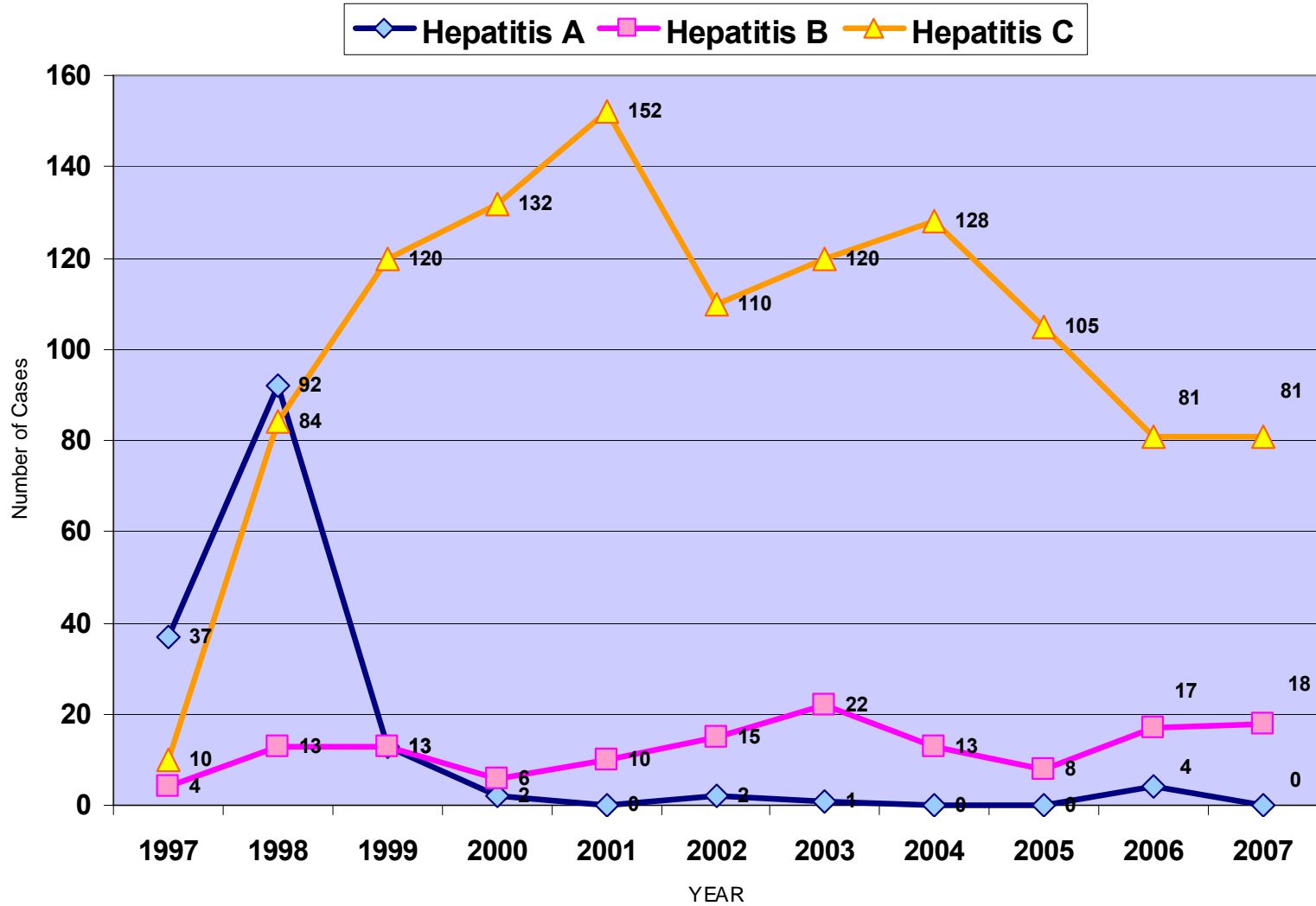
- OSHA requires that employee be warned at 40  $\mu$ /dl
- OSHA requires that employee be pulled at 50  $\mu$ /dl



## Superfund Site Testing of children

- 79 Children tested in 2007
  - 8 “in the box”
  - 71 from the Silver Valley Basin
  - **0 had lead levels >10 ug/dL**

## Hepatitis A, B, C Comparisons 1997-2007



# Cryptosporidiosis



- 5 year Incidence

Year	2003	2004	2005	2006	2007
Cases	0	2	1	13	18

# Cryptosporidiosis



- Cryptosporidia is a protozoa. A frequent contaminant of surface waters (lakes, streams) and recreational waters (water parks, water slides, public pools).
- They produces reproductive cysts that are very resistant to chlorination.
- 18 cases in the Panhandle in 2007
- Utah saw over 1,000 cases in 2007.
- A new drug is now available for treatment: **Nitazoxanide.**

# MRSA



- Fall 2007, “media storm” occurred regarding MRSA cases in the schools.
- The background to this included 2 deaths of young students, one in the Midwest, one on the east coast.
  - PHD provided numerous presentations to schools and the public.
  - One large Town Hall Meeting at Lake City High addressed over 100 parents and teachers.
  - Recommendations and educational materials provided to all schools in District 1.
  - PHD staff answered a large number of phone calls from concerned individuals.



# West Nile Virus Surveillance 2007

## Panhandle Health District



### Surveillance

	Mosquito			Birds		Mammals	
County	Traps	Pools	# Positive	# Swabbed	# Positive	Pos Horse	Pos Human
Ben	12	7	0	1	0	0	0
Bon	7	3	0	0	0	0	0
Bou	62	62	0	0	0	0	1*
Koo	35	14	0	3	0	0	1*
Sho	2	1	0	0	0	0	0
District	118	87	0	4	0	0	2
%		73.73	0.00		0.00		

\*Not acquired locally



# West Nile Virus

- Idaho State: 2006 = 1004 cases
- Idaho State: 2007 = 132 cases
- Panhandle Health District 2006 = 2
- Panhandle Health District 2007 = 2
- Upon investigation, PHD cases were determined to have been acquired outside of the District.
- Red Tail Hawk (a non-migratory bird), from Benewah county tested positive for WNV in October 2007



## Why were we not hit hard in 2007?

- One idea is that the season was hot and dry, not enough puddles for the city-dwelling *Culex tarsalis* and *pipiens* mosquitoes to reproduce in large numbers.
- Additionally, there were no positive mosquitoes detected in our region.
- What is the prediction for 2008
  - Dependent on weather
  - The Red Tail Hawk may imply that mosquitoes that have wintered-over are infected and able to begin an amplification process from early spring onward.
  - If so, we may see case accumulation by August 2008.

# 2007

## Food Recalls



- February:
  - Conagra Foods: recalled peanut butters (Peter Pan and Great Value) due to contamination with Salmonella Tennessee.
  - Nationwide: 288 cases.
  - PHD issued a HAN to local physicians.
  - PHD submitted one suspect stool specimen and Peanut butter specimen. Both negative.
  - Several cases related to this outbreak were reported in Idaho.

# 2007

## Food Recalls



- **June:**

- United Food Group recalled 75,000 pounds of ground beef due to E. Coli 0157:H7
- Main brand affected: Moran's.
- No cases in Panhandle, 1 case in reported in the state.

- **August:**

- Interstate Meat Distributing, 41,305 pounds of ground beef due to E.Coli 0157:H7
- Affected brand: Northwest Finest.
- One case in the Panhandle was identified to be related to this recall.

# 2007

## Food Recalls



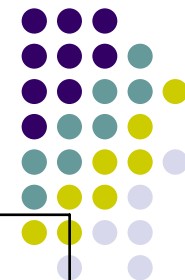
- **September:**

- Topps Meat Company issued a nationwide recall of 21.7 million pounds of frozen ground beef due to E. Coli 0157:H7.
- No cases in the Panhandle.

- **October:**

- Conagra Foods: recall of chicken, turkey and beef frozen pot pies due to contamination with Salmonella.
- Nationwide: 165 cases.
- 8 cases in Idaho, none in the Panhandle.

## Panhandle Health District 2007 Outbreak Summary



<b>Date Reported</b>	<b>12/29/06</b>	<b>01/02/07</b>	<b>02/13/07</b>	<b>03/19/07</b>	<b>07/11/07</b>	<b>11/09/07</b>
<b>Outbreak Name</b>	<b>ECF/Koo</b>	<b>ECF/Koo</b>	<b>ECF/Koo</b>	<b>ECF/Koo</b>	<b>Camp/Koo</b>	<b>Restaurant/Koo</b>
<b>Outbreak #</b>	<b>#2007-001</b>	<b>#2007-002</b>	<b>#2007-011</b>	<b>#2007-015</b>	<b>#2007-037</b>	<b>#2007-057</b>
<b>Disease Reported</b>	<b>Norovirus</b>	<b>Norovirus</b>	<b>Norovirus</b>	<b>Norovirus</b>	<b>Gastroenteritis</b>	<b>Food Poisoning</b>
<b>Confirmed Cases</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Probable Cases</b>	<b>28</b>	<b>38</b>	<b>11</b>	<b>39</b>	<b>31</b>	<b>23</b>
<b>Total # Investigated</b>	<b>208</b>	<b>214</b>	<b>47</b>	<b>291</b>	<b>92</b>	<b>150</b>
<b>Outbreak Status</b>	<b>Probable</b>	<b>Probable</b>	<b>Confirmed</b>	<b>Probable</b>	<b>Probable</b>	<b>Probable</b>

# **Panhandle Health District: Working for Healthy Communities**

